ORDERING & CROSS REFERENCING INFORMATION

Part Number Code M A/B X X XX X X

Cubic Monolithic	A–Std Series B–Magna Q Series	Dimensional and T.C. Code	Termination Code:	Capacitance Code:	Number of zeros	Tolerances:
		1 : Case 1, P90 2 : Case 2, P90 5 : Case 1, COG 6 : Case 2, COG 7 : Case 1, X7R 8 : Case 2, X7R	0 : Chip 1 : Solder 2 : Micro Strip 3 : Radial Ribbon 4 : Radial Wire 5 : Axial Ribbon 6 : Narrow Ribbon Lead 7 : Axial Wire 8 : Ni Interface/Solder	First two digits of capacitance value in pF **Note:** R signifies decimal point	following the first two digits of the capacitance value in pF	*B : ±0.1pF *C : ±0.25pF *D : ±0.5pF F : ±1% G : ±2% J : ±5% K : ±10% M : ±20% Z : +80% –20% *Below 10pF only

***Note:** Laser Marking Standard Except MA70/80 Series.

ATC XXX X XX X X XX XXX X

Std Series 100 Series, P90 **Ultra Hi-Q Series** 175 Series, P90 200 Series, X7R 700 Series, COG	Case Size	Capacitance Code:	Number of zeros	Tolerances:	Termination Code:	Voltage Rating	Laser Marking
		First two digits of capacitance value in pF **Note:** R signifies decimal point	following the first two digits of the capacitance value in pF	*B : ±0.1pF *C : ±0.25pF *D : ±0.5pF F : ±1% G : ±2% J : ±5% K : ±10% M : ±20% Z : +80% –20% *Below 10pF only	CA :Chip, Nickel Interfaced, Gold P :Nickel Interfaced, Solder MS :Microstrip RR :Radial Ribbon RW :Radial Wire AR :Axial Ribbon NAR :Narrow Axial Ribbon AW :Axial Wire VNMS:Special, inquire NMS :Special, inquire		Add X to suffix if required

***EXAMPLE:** CHIP: ATC100B 471J MS XXXX = MA28 471J**

LEADED: ATC100B 102J MS 50X = MA22 102J

****Notes:** 1) Use pages 2 and 3 cross-reference for series, style, size.

2) Standard voltage ratings are equivalent between MENA vs. ATC.

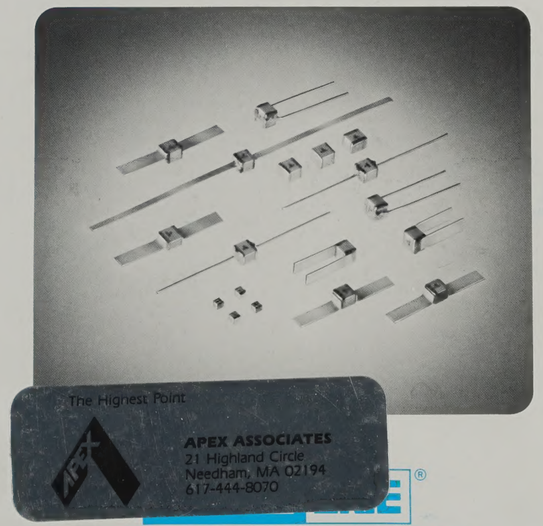
3) MENA parts are laser marked with capacitance code and tolerance as standard (except MA70/80 series).

*MENA AND ATC PARTS ARE EQUIVALENT *EXCEPT* FOR TERMINATION. ATC "CA" PART IS SUPPLIED WITH GOLD OVER NICKEL OVER SILVER.

MURATA ERIE–ATC

MICROWAVE CHIP CAPACITOR CROSS REFERENCE

SUPPLEMENT to CATALOG NO. C-03-A



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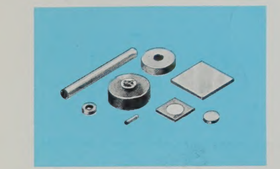
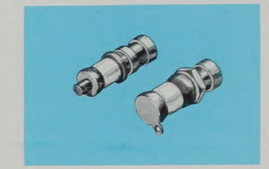
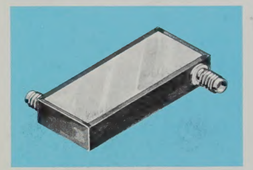
OTHER MURATA ERIE MICROWAVE PRODUCTS



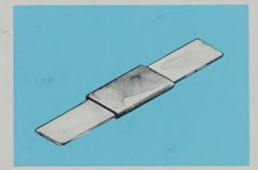
Microwave Dielectric Resonators (Resomics®)



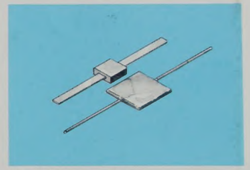
Air Dielectric UHF Trimmers



Microwave Dielectric Filters & Diplexers



RF Power Capacitors



Glass-Encapsulated High-Q Capacitors

Microwave Single Plate Capacitors

Sapphire Dielectric Microwave Trimmers

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Panafax: 814-238-0490

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MU-3470-690

ORDERING & CROSS REFERENCING INFORMATION

Part Number Code M A/B X X XX X X

Cubic Monolithic	**A–Std Series B–Magna Q Series**	**Dimensional and T.C. Code** 1 : Case 1, P90 2 : Case 2, P90 5 : Case 1, C0G 6 : Case 2, C0G 7 : Case 1, X7R 8 : Case 2, X7R	**Termination Code:** 0 : Chip 1 : Solder 2 : Micro Strip 3 : Radial Ribbon 4 : Radial Wire 5 : Axial Ribbon 6 : Narrow Ribbon Lead 7 : Axial Wire 8 : Ni Interface/Solder	**Capacitance Code:** First two digits of capacitance value in pF. **Note:** R signifies decimal point	**Number of zeros** following the first two digits of the capacitance value in pF	**Tolerances:** *B : ±0.1pF *C : ±0.25pF *D : ±0.5pF F : ±1% G : ±2% J : ±5% K : ±10% M : ±20% Z : +80% −20% *Below 10pF only

*Note: Laser Marking Standard Except MA70/80 Series.

ATC XXX X XX X X XX XXX X

Std Series 100 Series, P90 **Ultra Hi-Q Series** 175 Series, P90 200 Series, X7R 700 Series, C0G	**Case Size**	**Capacitance Code:** First two digits of capacitance value in pF **Note:** R signifies decimal point	**Number of zeros** following the first two digits of the capacitance value in pF	**Tolerances:** *B : ±0.1pF *C : ±0.25pF *D : ±0.5pF F : ±1% G : ±2% J : ±5% K : ±10% M : ±20% Z : +80% −20% *Below 10pF only	**Termination Code:** CA :Chip, Nickel Interfaced, Gold P :Nickel Interfaced, Solder MS :Microstrip RR :Radial Ribbon RW :Radial Wire AR :Axial Ribbon NAR :Narrow Axial Ribbon AW :Axial Wire VNMS:Special, inquire NMS :Special, inquire	**Voltage Rating**	**Laser Marking** Add X to suffix if required

*EXAMPLE: CHIP: ATC100B 471J MS XXXX = MA28 471J**

LEADED: ATC100B 102J MS 50X = MA22 102J

**Notes: 1) Use pages 2 and 3 cross-reference for series, style, size.

2) Standard voltage ratings are equivalent between MENA vs. ATC.

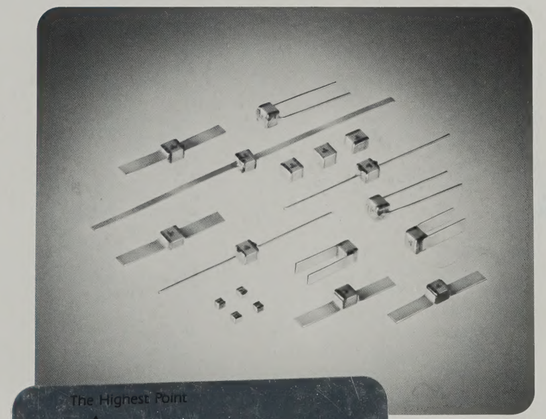
3) MENA parts are laser marked with capacitance code and tolerance as standard (except MA70/80 series).

*MENA AND ATC PARTS ARE EQUIVALENT *EXCEPT* FOR TERMINATION. ATC "CA" PART IS SUPPLIED WITH GOLD OVER NICKEL OVER SILVER.

MURATA ERIE–ATC

MICROWAVE CHIP CAPACITOR CROSS REFERENCE

SUPPLEMENT to CATALOG NO. C-03-A



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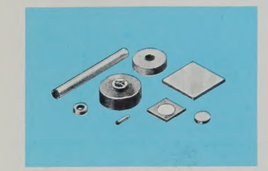
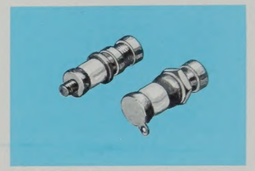
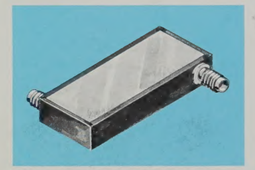


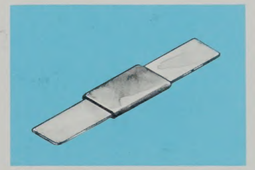
Microwave Dielectric Resonators (Resomics®)



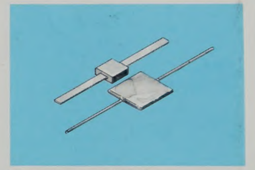
Air Dielectric UHF Trimmers



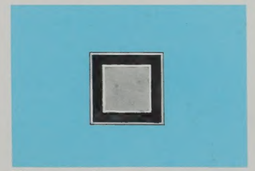
Microwave Dielectric Filters & Diplexers



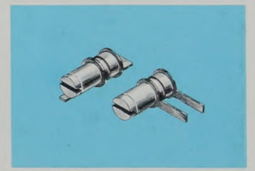
RF Power Capacitors



Glass-Encapsulated High-Q Capacitors



Microwave Single Plate Capacitors



Sapphire Dielectric Microwave Trimmers

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MU-3470-690

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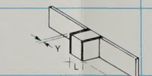
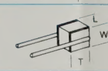
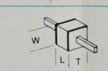
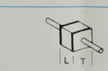
PART NUMBER CROSS REFERENCE

MICROWAVE CHIP CAPACITORS

Style (MIL Style)	SERIES — ALL MURATA ERIE MICROWAVE CHIP CAPACITORS ARE DESIGNED TO MEET THE REQUIREMENTS OF MIL-C-55681								Case Size	Configuration	Nominal Dimensions	
	MENA P90	ATC100	MENA MAGNA Q	ATC175	MENA COG	ATC700	MENA X7R	ATC200			L	W, T, & Y
	Temp. Coeff.: +90, ±20ppm		Temp. Coeff.: +90, ±30ppm		Temp. Coeff.: ±30ppm (COG)		Temp. Char.: X7R, ±15%					
Chip (CDR11)	MA10____	ATC100A____CA___*	—	—	MA50____	ATC700A____CA___*	MA70____	ATC200A____CA___*	1		.055	W=.055 Tmax=.055 Y=.01
Chips, Soldered (CDR 12)	MA11____	—	—	—	MA51____	—	MA71____	—	1		.070	
****Nickel Interfaced Chips** (CDR 12)	MA18____	ATC100A____P____	—	—	MA58____	ATC700A____P____	MA78____	ATC200A____P____	1			
Chip (CDR 13)	MA20____	ATC100B____CA___*	MB20____	ATC175B____C____	MA60____	ATC700B____CA___*	MA80____	ATC200B____CA___*	2		.110	W=.110 Tmax=.100 Y=.015
Chips, Soldered (CDR 14)	MA21____	—	MB21____	—	MA61____	—	MA81____	—	2		.130	
****Nickel Interfaced Chips** (CDR 14)	MA28____	ATC100B____P____	MB28____	ATC175B____P____	MA68____	ATC700B____P____	MA88____	ATC200B____P____	2		.130	
Microstrip (CDR 21)	MA22____	ATC100B____MS____	MB22____	ATC175B____MS____	MA62____	ATC700B____MS____	MA82____	ATC200B____MS____	2		.135	
Radial Ribbon	MA23____	ATC100B____RR____	MB23____	ATC175B____RR____	MA63____	ATC700B____RR____	MA83____	ATC200B____RR____	2		.135	
Radial Wire (CDR 23)	MA24____	ATC100B____RW____	MB24____	ATC175B____RW____	MA64____	ATC700B____RW____	MA84____	ATC200B____RW____	2		.135	
Axial Ribbon	MA25____	ATC100B____AR____	MB25____	ATC175B____AR____	MA65____	ATC700B____AR____	MA85____	ATC200B____AR____	2		.135	
Narrow Axial Ribbon	MA26____	ATC100B____NAR____	MB26____	ATC175B____NAR____	MA66____	ATC700B____NAR____	MA86____	ATC200B____NAR____	2		.135	
Axial Wire	MA27____	ATC100B____AW____	MB27____	ATC175B____AW____	MA67____	ATC700B____AW____	MA87____	ATC200B____AW____	2		.135	

*MENA AND ATC PARTS ARE EQUIVALENT *EXCEPT* FOR TERMINATION. ATC "CA" PART IS SUPPLIED WITH GOLD OVER NICKEL OVER SILVER.
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PART NUMBER CROSS REFERENCE

MICROWAVE CHIP CAPACITORS

Style (MIL Style)	SERIES — ALL MURATA ERIE MICROWAVE CHIP CAPACITORS ARE DESIGNED TO MEET THE REQUIREMENTS OF MIL-C-55681								Case Size	Configuration	Nominal Dimensions	
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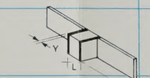
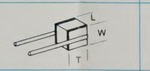
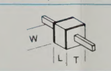
	Temp. Coeff.: +90, ±20ppm		Temp. Coeff.: +90, ±30ppm		Temp. Coeff.: ±30ppm (COG)		Temp. Char.: X7R, ±15%					
Chip (CDR11)	MA10____	ATC100A____CA___*	—	—	MA50____	ATC700A____CA___*	MA70____	ATC200A____CA___*	1		.055	W=.055 Tmax=.055 Y=.01
Chips, Soldered (CDR 12)	MA11____	—	—	—	MA51____	—	MA71____	—	1		.070	
****Nickel Interfaced Chips** (CDR 12)	MA18____	ATC100A____P____	—	—	MA58____	ATC700A____P____	MA78____	ATC200A____P____	1			
Chip (CDR 13)	MA20____	ATC100B____CA___*	MB20____	ATC175B____C____	MA60____	ATC700B____CA___*	MA80____	ATC200B____CA___*	2		.110	W=.110 Tmax=.100 Y=.015
Chips, Soldered (CDR 14)	MA21____	—	MB21____	—	MA61____	—	MA81____	—	2		.130	
****Nickel Interfaced Chips** (CDR 14)	MA28____	ATC100B____P____	MB28____	ATC175B____P____	MA68____	ATC700B____P____	MA88____	ATC200B____P____	2		.130	
Microstrip (CDR 21)	MA22____	ATC100B____MS____	MB22____	ATC175B____MS____	MA62____	ATC700B____MS____	MA82____	ATC200B____MS____	2		.135	
Radial Ribbon	MA23____	ATC100B____RR____	MB23____	ATC175B____RR____	MA63____	ATC700B____RR____	MA83____	ATC200B____RR____	2		.135	
Radial Wire (CDR 23)	MA24____	ATC100B____RW____	MB24____	ATC175B____RW____	MA64____	ATC700B____RW____	MA84____	ATC200B____RW____	2		.135	
Axial Ribbon	MA25____	ATC100B____AR____	MB25____	ATC175B____AR____	MA65____	ATC700B____AR____	MA85____	ATC200B____AR____	2		.135	
Narrow Axial Ribbon	MA26____	ATC100B____NAR____	MB26____	ATC175B____NAR____	MA66____	ATC700B____NAR____	MA86____	ATC200B____NAR____	2		.135	
Axial Wire	MA27____	ATC100B____AW____	MB27____	ATC175B____AW____	MA67____	ATC700B____AW____	MA87____	ATC200B____AW____	2		.135	

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